What is claimed is:

- (Currently Amended) A method comprising:
 transmitting a defined beam of eyesafe laser energy;
 receiving reflected energy from said beam; and
 analyzing information in said received energy so as to detect the presence of a
 previously undetected moving projectile.
- 2. (Original) A method according to Claim 1, including configuring said beam to have an azimuth angle and an elevation angle.
- 3. (Original) A method according to Claim 2, including selecting said azimuth angle to be 360°.
- 4. (Original) A method according to Claim 3, including selecting said elevation angle to be approximately 10°.
- 5. (Original) A method according to Claim 1, wherein said receiving includes directing said reflected energy onto a detector having a two-dimensional array of detector elements, each said detector element receiving reflected energy from a respective different direction.
- 6. (Original) A method according to Claim 1, wherein said analyzing includes detecting a Doppler shift in said received energy.
- 7. (Original) A method according to Claim 6, wherein said receiving includes directing said reflected energy onto a detector having a two-dimensional array of detector elements, each said element receiving reflected energy from a respective different direction.
- 8. (Original) A method according to Claim 7, wherein said receiving includes directing onto said detector a reference beam, so that energy from said defined beam mixes with energy from said reference beam in each said detector element to produce sum and difference frequencies.

- 9. (Original) A method according to Claim 7, wherein said analyzing includes supplying an output signal from each said detector element to a plurality of circuit portions which each perform at least one of filtering and fast Fourier transformation.
- 10. (Original) A method according to Claim 9, wherein said transmitting includes configuring said defined beam to include chirp modulation.
- 11. (Original) A method according to Claim 9, wherein said transmitting includes configuring said defined beam to be modulated with a single frequency.
- 12. (Original) A method according to Claim 9, including selecting said reference beam to be substantially equivalent to said defined beam.
 - 13. (Currently Amended) An apparatus comprising:
 - a transmitter portion which transmits a defined beam of eyesafe laser energy;
 - a receiver portion which receives reflected energy from said beam; and
- a further portion which analyzes information in said received energy so as to detect the presence of a <u>previously undetected</u> moving projectile.
- 14. (Original) An apparatus according to Claim 13, wherein said beam has an azimuth angle and an elevation angle.
- 15. (Original) An apparatus according to Claim 14, wherein said azimuth angle is 360°.
- 16. (Original) An apparatus according to Claim 15, wherein said elevation angle is approximately 10°.
- 17. (Original) An apparatus according to Claim 13, wherein said receiver portion includes a detector having a two-dimensional array of detector elements, and structure for directing said reflected energy onto said detector, each said detector element receiving reflected energy from a respective different direction.

- 18. (Original) An apparatus according to Claim 13, wherein said further portion includes circuitry which can detect a Doppler shift in said received energy.
- 19. (Original) An apparatus according to Claim 18, wherein said receiver portion includes a detector having a two-dimensional array of detector elements, and structure for directing said reflected energy onto said detector, each said detector element receiving reflected energy from a respective different direction.
- 20. (Original) An apparatus according to Claim 19, wherein said receiver includes structure for directing onto said detector a reference beam, energy from said defined beam mixing with energy from said reference beam in each said detector element to produce sum and difference frequencies.
- 21. (Original) An apparatus according to Claim 19, wherein said circuitry includes a plurality of circuit portions which each perform at least one of filtering and fast Fourier transformation of an output signal from one of said detector elements.
- 22. (Original) An apparatus according to Claim 21, wherein said defined beam includes chirp modulation.
- 23. (Original) An apparatus according to Claim 21, wherein said defined beam is modulated with a single frequency.
- 24. (Original) An apparatus according to Claim 21, wherein said reference beam is substantially equivalent to said defined beam.
 - 25. (New) A method comprising:

transmitting a defined beam of eyesafe laser energy;

receiving reflected energy from said beam; and

detecting the presence of a previously undetected moving projectile by detecting a Doppler shift in said received energy.